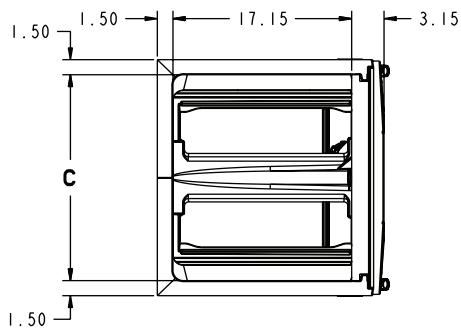
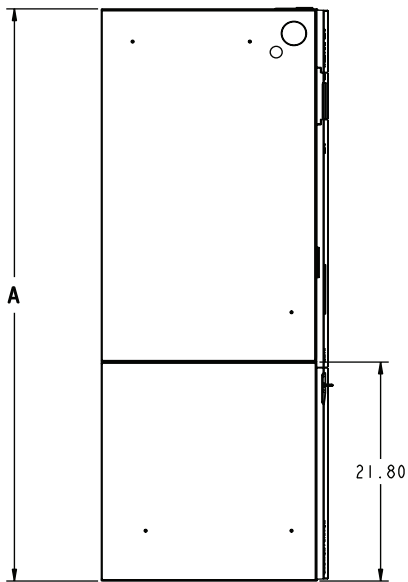
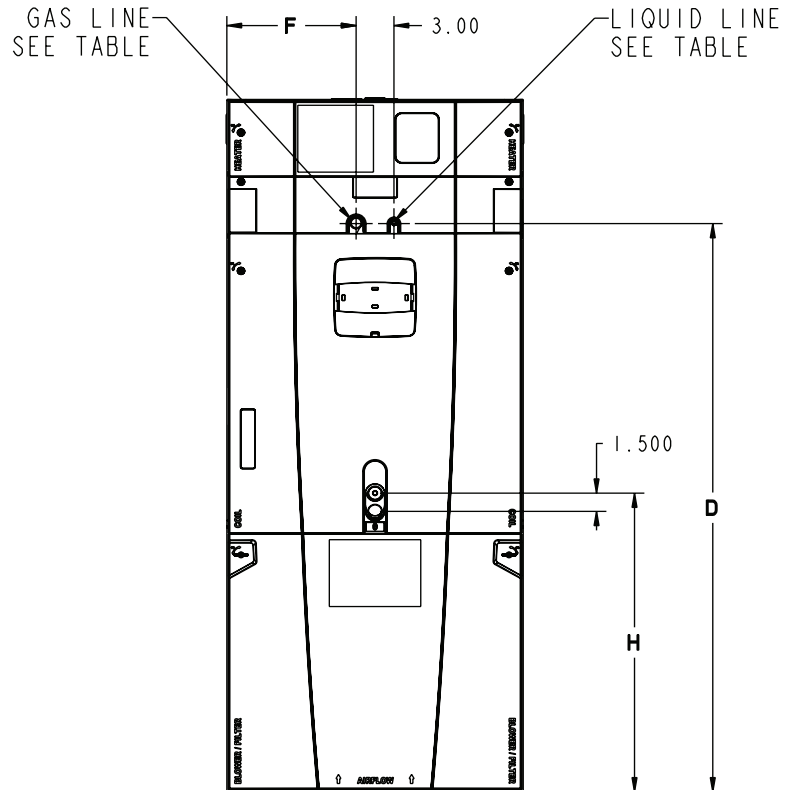
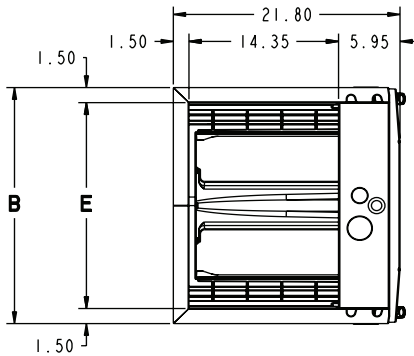




TAG: \_\_\_\_\_

# Submittal

## 2 Ton Convertible Air Handler TAM7A0A24H21SA



|             | TO COMBUSTIBLE MATERIAL (REQUIRED) | SERVICE CLEARANCE (RECOMMENDED) |
|-------------|------------------------------------|---------------------------------|
| SIDES       | 0"                                 | 2"                              |
| FRONT       | 0"                                 | 21"                             |
| BACK        | 0"                                 | 0"                              |
| INLET DUCT  | 0"                                 |                                 |
| OUTLET DUCT | 0"                                 |                                 |

| MODEL NO.     | A    | B    | C    | D    | E    | F   | H    | FLOW CONTROL | GAS LINE BRAZE | LIQ LINE BRAZE |
|---------------|------|------|------|------|------|-----|------|--------------|----------------|----------------|
| *AM7A0A24H2SA | 49.9 | 17.5 | 14.5 | 39.6 | 14.5 | 7.3 | 24.4 | EEV          | 3/4            | 3/8            |

\* May be "A" or "T"

## PRODUCT SPECIFICATIONS

### PRODUCT SPECIFICATIONS

|                                   |                           |
|-----------------------------------|---------------------------|
| <b>MODEL</b>                      | <b>TAM7A0A24H21SA</b>     |
| <b>RATED VOLTS/PH/HZ.</b>         | 208-230/1/60              |
| <b>RATINGS</b> ①                  | See O.D. Specifications   |
| <b>INDOOR COIL — Type</b>         | Plate Fin                 |
| Rows — F.P.I.                     | 3 - 14                    |
| Face Area (sq. ft.)               | 3.67                      |
| Tube Size (in.)                   | 3/8                       |
| Refrigerant Control               | EEV                       |
| Drain Conn. Size (in.) ②          | 3/4 NPT                   |
| <b>DUCT CONNECTIONS</b>           | See Outline Drawing       |
| <b>INDOOR FAN — Type</b>          | Centrifugal               |
| Diameter-Width (In.)              | 11 X 8                    |
| No. Used                          | 1                         |
| Drive - No. Speeds                | Direct - Variable         |
| CFM vs. in. w.g.                  | See Fan Performance Table |
| No. Motors — H.P.                 | 1 - 1/2                   |
| Motor Speed R.P.M.                | Variable ECM              |
| Volts/Ph/Hz                       | 208-230/1/60              |
| F.L. Amps                         | 3.0                       |
| <b>FILTER</b>                     |                           |
| Filter Furnished?                 | No                        |
| Type Recommended                  | Throwaway                 |
| No.-Size-Thickness                | 1 - 16 X 20 - 1 in.       |
| <b>REFRIGERANT</b>                | <b>R-410A</b>             |
| Ref. Line Connections             | Brazed                    |
| Coupling or Conn. Size — in. Gas  | 3/4                       |
| Coupling or Conn. Size — in. Liq. | 3/8                       |
| <b>DIMENSIONS</b>                 | H x W x D                 |
| Crated (In.)                      | 51-1/2 x 23-1/2 x 19      |
| Uncrated                          | 49-7/8 x 21-3/4 x 17-1/2  |
| <b>WEIGHT</b>                     |                           |
| Shipping (Lbs.)/Net (Lbs.)        | 127/116                   |

① These Air Handlers are A.H.R.I. certified with various Split System Air Conditioners and Heat Pumps (AHRI STANDARD 210/240). Refer to the Split System Outdoor Unit Product Data Guides for performance data.

② 3/4" Male Plastic Pipe (Ref.: ASTM 1785-76)



| MINIMUM HEATER AIRFLOW CFM - HEATER MATRIX |                |                |                |                |                |                |    |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----|
| MODEL NO.                                  | BAYEVAC05BK1AA | BAYEVAC08BK1AA | BAYEVAC10BK1AA | BAYEVBC15BK1AA | BAYEVBC20BK1AA | BAYEVCC25BK1AA |    |
| *AM7A0A24H21SAA                            | 480/560        | 480/800        | 560/800        | 560/800        | --             | --             | -- |
| COOLING / HP AIRFLOW                       |                |                |                |                |                |                |    |

| AIRFLOW PERFORMANCE                |                         |               |                          |      |      |      |      |                         |               |                          |      |      |      |      |
|------------------------------------|-------------------------|---------------|--------------------------|------|------|------|------|-------------------------|---------------|--------------------------|------|------|------|------|
| *AM7A0A24 WITH WET COIL, NO FILTER |                         |               |                          |      |      |      |      |                         |               |                          |      |      |      |      |
| OUTDOOR MULTIPLIER (TONS)          | COOLING AIRFLOW SETTING | Airflow Power | EXTERNAL STATIC PRESSURE |      |      |      |      | HEATING AIRFLOW SETTING | Airflow Power | EXTERNAL STATIC PRESSURE |      |      |      |      |
|                                    |                         |               | 0.1                      | 0.3  | 0.5  | 0.7  | 0.9  |                         |               | 0.1                      | 0.3  | 0.5  | 0.7  | 0.9  |
| 1.5 tons                           | 360                     | CFM           | 542                      | 547  | 548  | 547  | 541  | 390                     | CFM           | 586                      | 599  | 600  | 599  | 595  |
|                                    | CFM/ton                 | Watts         | 38                       | 67   | 101  | 137  | 175  | CFM/ton                 | Watts         | 46                       | 80   | 115  | 153  | 192  |
|                                    | 380                     | CFM           | 574                      | 583  | 587  | 588  | 581  | 410                     | CFM           | 618                      | 633  | 636  | 637  | 629  |
|                                    | CFM/ton                 | Watts         | 43                       | 75   | 110  | 148  | 185  | CFM/ton                 | Watts         | 53                       | 88   | 124  | 163  | 202  |
| 2 tons** †                         | 400                     | CFM           | 605                      | 618  | 624  | 625  | 618  | 430                     | CFM           | 650                      | 665  | 669  | 672  | 660  |
|                                    | CFM/ton                 | Watts         | 49                       | 82   | 119  | 158  | 196  | CFM/ton                 | Watts         | 59                       | 96   | 134  | 174  | 212  |
|                                    | 420                     | CFM           | 636                      | 651  | 659  | 660  | 653  | 450                     | CFM           | 681                      | 696  | 703  | 704  | 696  |
|                                    | CFM/ton                 | Watts         | 55                       | 90   | 128  | 168  | 207  | CFM/ton                 | Watts         | 66                       | 104  | 144  | 185  | 225  |
| 2.5 tons                           | 360                     | CFM           | 723                      | 743  | 754  | 756  | 748  | 390                     | CFM           | 780                      | 800  | 809  | 811  | 802  |
|                                    | CFM/ton                 | Watts         | 75                       | 115  | 158  | 201  | 242  | CFM/ton                 | Watts         | 94                       | 137  | 182  | 227  | 268  |
|                                    | 380                     | CFM           | 761                      | 782  | 793  | 796  | 788  | 410                     | CFM           | 818                      | 838  | 848  | 851  | 842  |
|                                    | CFM/ton                 | Watts         | 86                       | 128  | 172  | 216  | 259  | CFM/ton                 | Watts         | 106                      | 151  | 198  | 244  | 287  |
| 2.5 tons                           | 400 †                   | CFM           | 799                      | 820  | 832  | 835  | 827  | 430                     | CFM           | 856                      | 876  | 887  | 889  | 881  |
|                                    | CFM/ton                 | Watts         | 97                       | 141  | 187  | 233  | 276  | CFM/ton                 | Watts         | 119                      | 167  | 215  | 262  | 307  |
|                                    | 420                     | CFM           | 836                      | 858  | 870  | 873  | 866  | 450                     | CFM           | 894                      | 913  | 925  | 927  | 920  |
|                                    | CFM/ton                 | Watts         | 109                      | 155  | 203  | 250  | 294  | CFM/ton                 | Watts         | 134                      | 183  | 233  | 282  | 327  |
| 2.5 tons                           | 360                     | CFM           | 892                      | 914  | 927  | 930  | 923  | 390                     | CFM           | 964                      | 986  | 997  | 1000 | 992  |
|                                    | CFM/ton                 | Watts         | 130                      | 179  | 229  | 278  | 324  | CFM/ton                 | Watts         | 164                      | 218  | 271  | 322  | 370  |
|                                    | 380                     | CFM           | 939                      | 962  | 974  | 978  | 971  | 410                     | CFM           | 1013                     | 1034 | 1045 | 1049 | 1040 |
|                                    | CFM/ton                 | Watts         | 149                      | 201  | 253  | 304  | 351  | CFM/ton                 | Watts         | 188                      | 244  | 299  | 353  | 400  |
| 3 tons                             | 400                     | CFM           | 986                      | 1009 | 1022 | 1026 | 1019 | 430                     | CFM           | 1063                     | 1083 | 1095 | 1097 | 1089 |
|                                    | CFM/ton                 | Watts         | 170                      | 225  | 279  | 332  | 380  | CFM/ton                 | Watts         | 214                      | 273  | 331  | 385  | 434  |
|                                    | 420                     | CFM           | 1035                     | 1058 | 1071 | 1074 | 1066 | 450                     | CFM           | 1114                     | 1135 | 1145 | 1145 | 1135 |
|                                    | CFM/ton                 | Watts         | 194                      | 251  | 308  | 362  | 411  | CFM/ton                 | Watts         | 243                      | 305  | 365  | 420  | 469  |
| 3 tons                             | 360                     | CFM           | 1065                     | 1088 | 1101 | 1103 | 1095 | 390                     | CFM           | 1160                     | 1181 | 1190 | 1189 | 1157 |
|                                    | CFM/ton                 | Watts         | 209                      | 269  | 327  | 382  | 431  | CFM/ton                 | Watts         | 272                      | 337  | 397  | 453  | 486  |
|                                    | 380                     | CFM           | 1126                     | 1149 | 1160 | 1161 | 1151 | 410                     | CFM           | 1225                     | 1244 | 1249 | 1230 | 1146 |
|                                    | CFM/ton                 | Watts         | 244                      | 307  | 367  | 423  | 472  | CFM/ton                 | Watts         | 317                      | 384  | 444  | 486  | 477  |
| 3 tons                             | 400                     | CFM           | 1190                     | 1211 | 1220 | 1218 | 1164 | 430                     | CFM           | 1291                     | 1305 | 1298 | 1217 | 1135 |
|                                    | CFM/ton                 | Watts         | 285                      | 350  | 412  | 467  | 483  | CFM/ton                 | Watts         | 368                      | 434  | 486  | 476  | 468  |
|                                    | 420                     | CFM           | 1255                     | 1273 | 1278 | 1237 | 1151 | 450                     | CFM           | 1355                     | 1361 | 1285 | 1206 | 1124 |
|                                    | CFM/ton                 | Watts         | 331                      | 397  | 459  | 483  | 475  | CFM/ton                 | Watts         | 422                      | 485  | 475  | 467  | 460  |

NOTES:  
1. \* Factory Setting  
2. At continuous fan setting: Airflow values are approximately 50% of the listed values  
3. Models start with "A" or "T"

| Heater Attribute Data |                 |          |       |                         |                          |                             |          |       |                         |                          |                             |
|-----------------------|-----------------|----------|-------|-------------------------|--------------------------|-----------------------------|----------|-------|-------------------------|--------------------------|-----------------------------|
| *AM7A0A24H21SA        |                 |          |       |                         |                          |                             |          |       |                         |                          |                             |
| Heater Model No.      | No. of Circuits | 240 Volt |       |                         |                          |                             | 208 Volt |       |                         |                          |                             |
|                       |                 | Capacity |       | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection | Capacity |       | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection |
|                       |                 | kW       | BTUH  |                         |                          |                             | kW       | BTUH  |                         |                          |                             |
| No Heater             | 0               | -        | -     | 3.0**                   | 4                        | 15                          | -        | -     | 3.0**                   | 4                        | 15                          |
| BAYEVAC05++1          | 1               | 4.80     | 16392 | 20.0                    | 29                       | 30                          | 3.60     | 12294 | 17.3                    | 25                       | 25                          |
| BAYEVAC08++1          | 1               | 7.68     | 26228 | 32.0                    | 44                       | 45                          | 5.76     | 19671 | 27.7                    | 38                       | 40                          |
| BAYEVAC10++1          | 1               | 9.60     | 32785 | 40.0                    | 54                       | 60                          | 7.20     | 24589 | 34.6                    | 47                       | 50                          |
| BAYEVAC10LG3          | 1-3 PH          | 9.60     | 32785 | 23.1                    | 32                       | 35                          | 7.20     | 24589 | 20.0                    | 28                       | 30                          |

Note: \* May be "A" or "T"  
Note: \*\* Motor Amps

- Notes:
- See Product Data or Air Handler nameplate for approved combinations of Air Handlers and Heaters
  - Heater model numbers may have additional suffix digits.

# Mechanical Specifications

- **Air-Tite II™** cabinet
  - 2% or less air leakage
  - Precision applied - durable door seals
  - Specially designed air seal around refrigerant, condensate and conduit connections
  - Double wall foamed cabinet system
  - ≥ R-4.2 insulating value
  - No loose fiber design
  - Smooth cleanable interior design
  - Sweat eliminating design
  - Composite foamed cabinet doors
  - Water proof cabinet design
  - Integrated horizontal drain pans
  - Modular cabinet with 5/16" allen wrench "quick latch" design
- Multi-position up/down flow horizontal left/right
- Side return option
- Control board protection pocket built into cabinet wall
- Alert port to view control board codes without door removal
- **ComfortLink™ II** control
  - 30+ alert codes
  - 5 button user interface and clear description of set up
  - Service diagnostic with alert reported at user interface
  - Low voltage terminal connection point
  - Quarter turn phillips head door fasteners
- **Vortica®** blower with polarized plug connections and integrated slide deck for easy removal
- Aluminum coil with integrated slide deck for easy removal and polarized plug connections on coil EEV
- Patented enhanced coil fin
- Electronic Expansion Valve (EEV) with low ambient and low superheat compressor protection
- Dual refrigerant compatible as shipped
- Slide in electric heaters with polarized plug connections (sold as accessory)
- Slide in hot water coils with polarized plug connections (sold as accessory)
- UVC light kit with safety switch and polarized plug connections (sold as accessory)
- Labeled panels and connections
- Molded in 1" standard filter rail
- Variable speed ECM motor
- Soft start fan motor operation
- **Comfort R™** mode
- Built in fan delay modes
- Maximum width of 23.5"
- Compact 20.8" depth with doors removed
- Two tone color
- Fused 24v power
- Safety door switch
- **1-year warranty**
- **10-year warranty registered**
- **Optional extended warranty available**



**Trane**

6200 Troup Highway  
Tyler, TX 75707

The manufacturer has a policy of continuous product and product data improvement and it reserves the right to change design and specification without notice.